US ERA ARCHIVE DOCUMENT

A Community of Practice (CP) Approach For Integrating Earth Observation with Human Health & Environmental Decision-Making

Air Quality and Health CP

User Interface Committee (UIC) Meeting Washington, DC

Gary J. Foley, PhD UIC Co-Chair August 1, 2007

A Spectrum of User Communities

From observations

Earth observations & earth system models

Data-to-Information archiving & services

Scientific Knowledge

Decision support tool development

Decision making

Assessment of benefits

Earth system scientists and modelers

Earth system service providers

Sci Discipline Researchers

Env., Economic & Health modelers & researchers

Policy Makers, Env. Managers & PH Officials

Public officials, advocacy groups and the Public

To societal benefits



Communities of Practice (CP)

A user-led community of stakeholders,

- from providers
- to the final beneficiaries of Earth observation data and information,

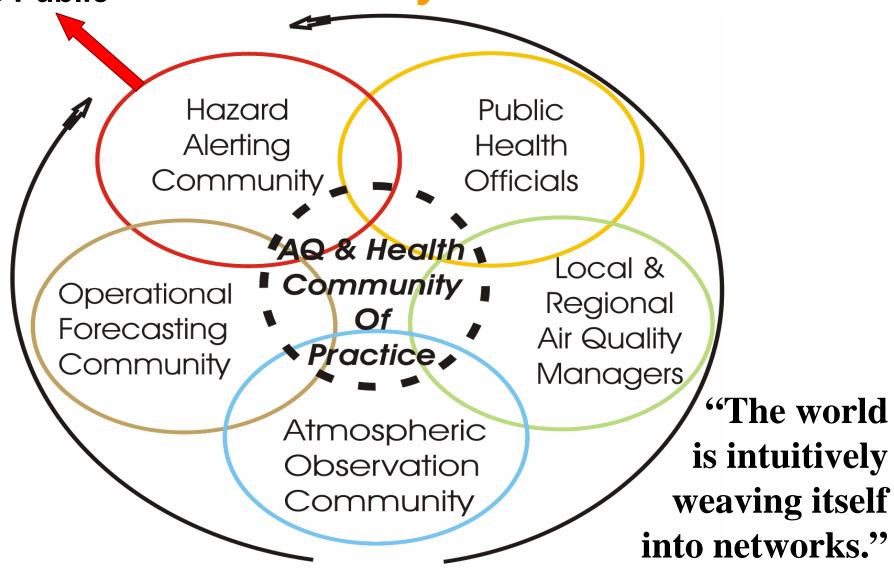
with a common interest in specific aspects of societal benefits to be realized by GEOSS implementation.

The Communities of Practice will be self organized, reporting progress to UIC/GEO

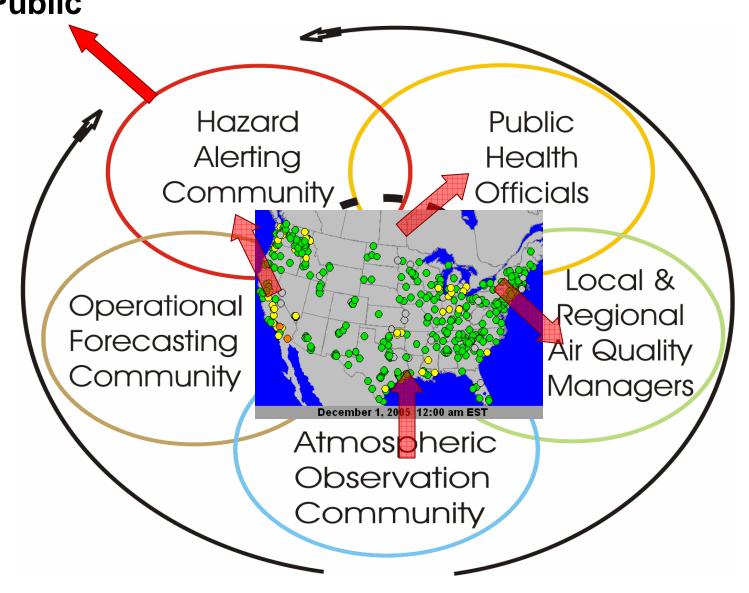


An Example Community of Practice:

The Public Air Quality & Health

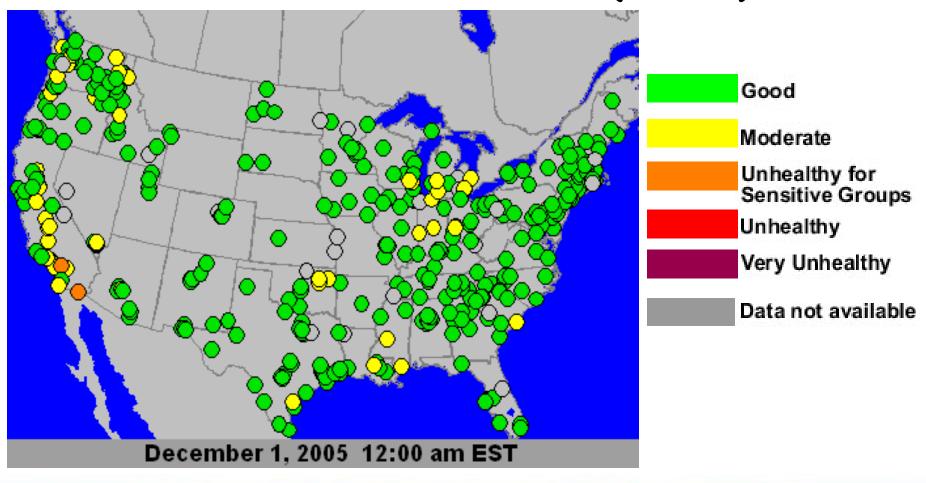


Real-time AQ Reporting



National Forecast

Current AQI - Particle Pollution(PM2.5)





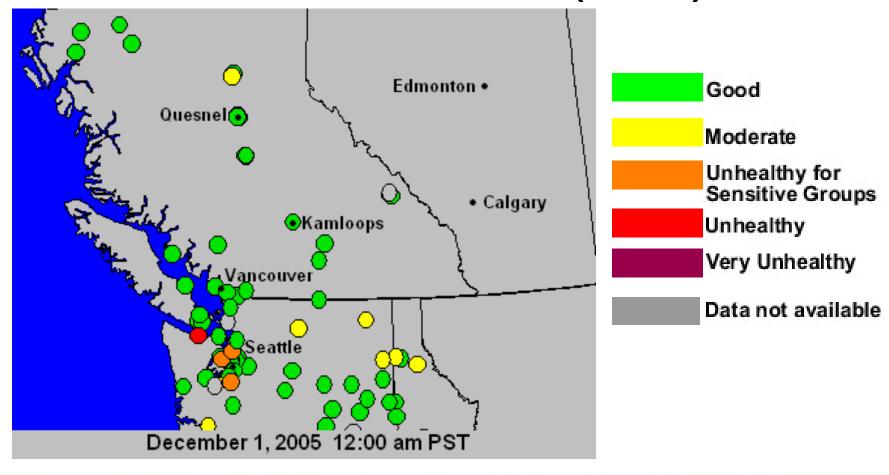
Home

National Forecast

Local Forecasts & Conditions

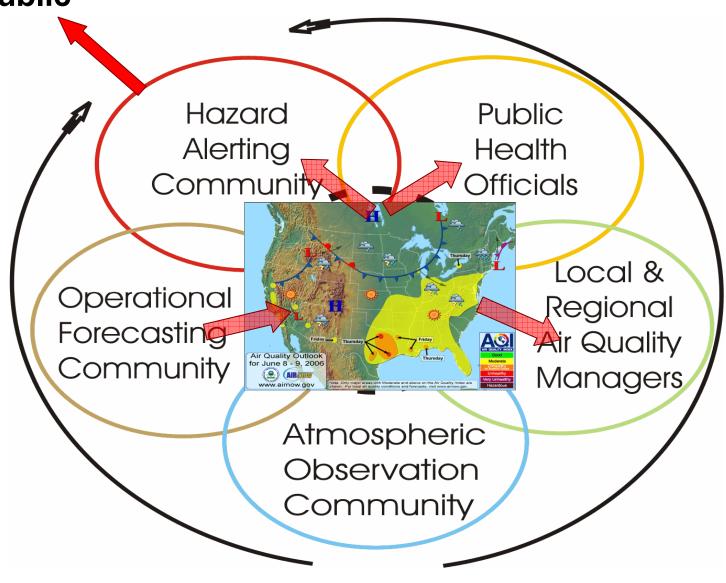
Partner

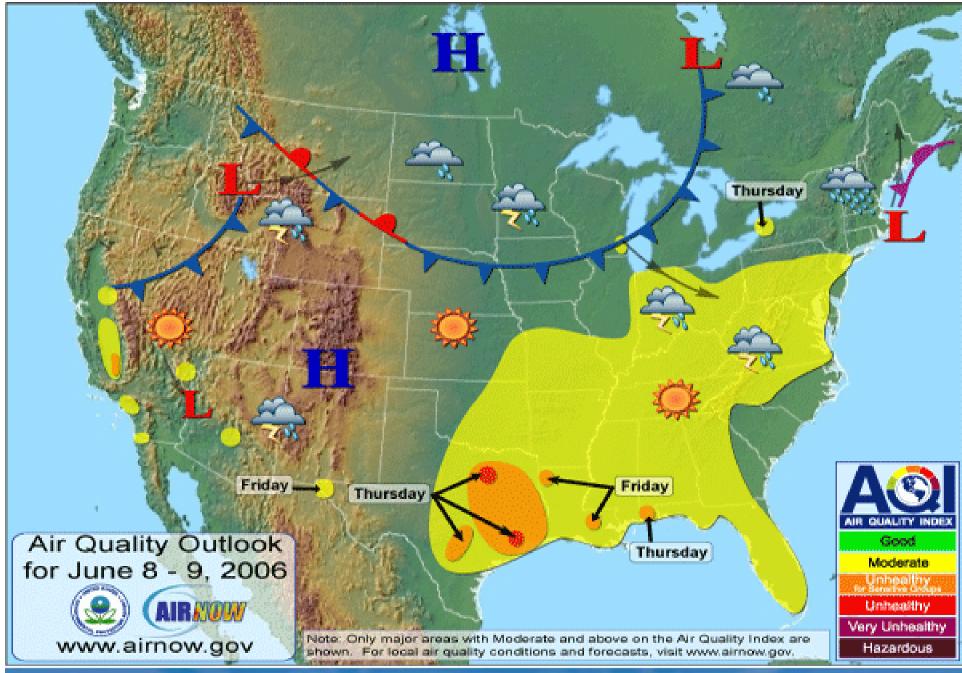
Current AQI - Particle Pollution(PM2.5)





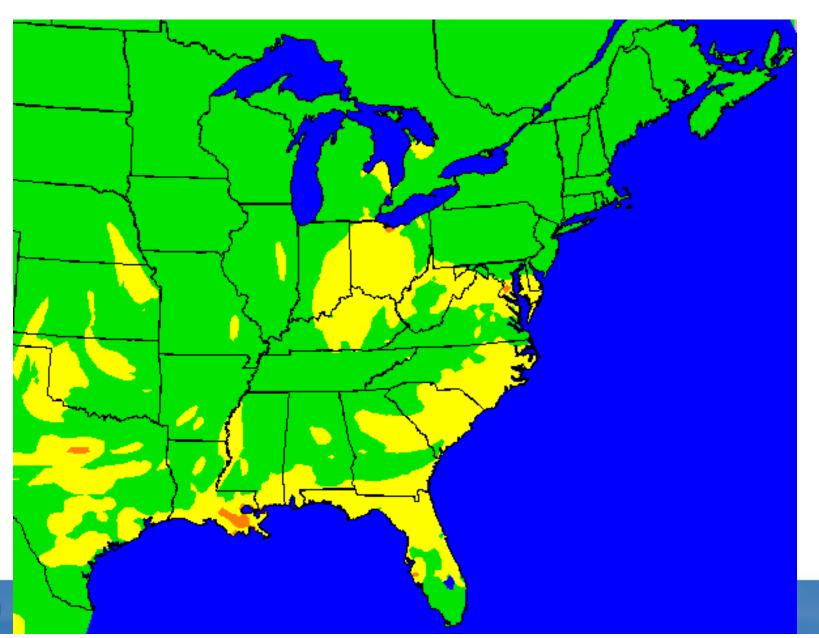
Real-time AQ Forecasting



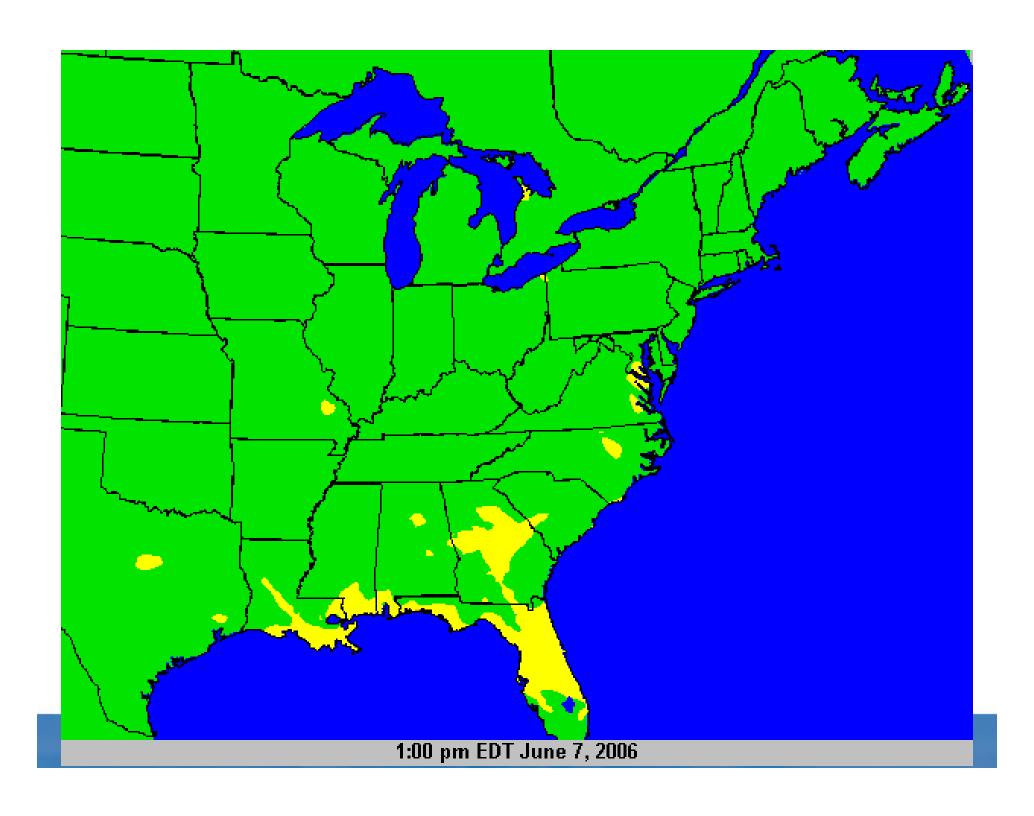




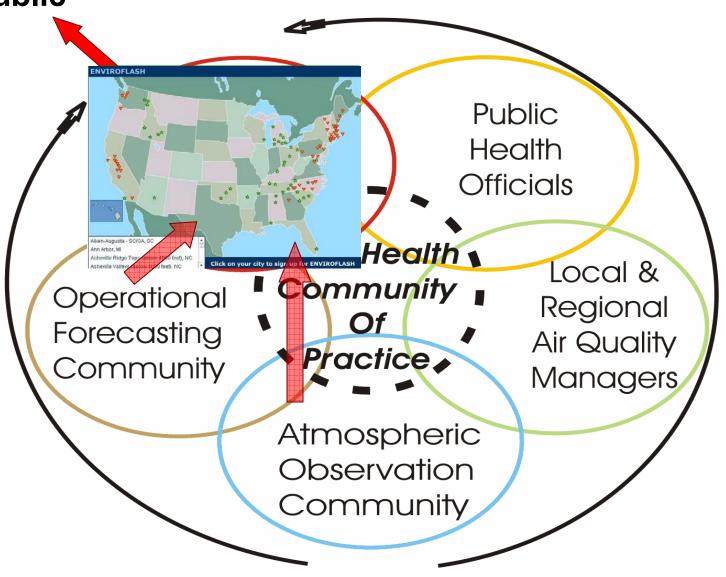
June 9th Peak Ozone Forecast

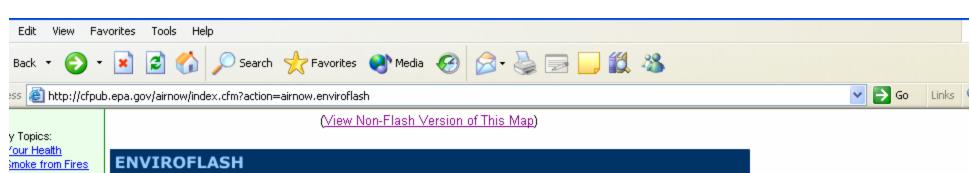






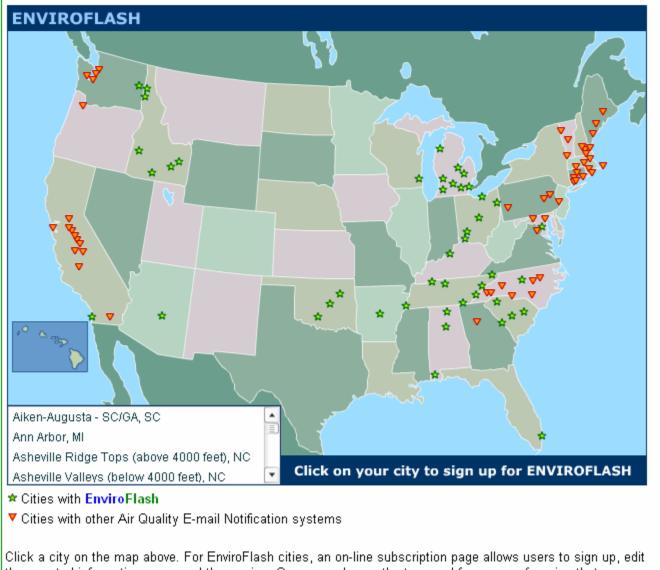
Real Time Alerting of the Public





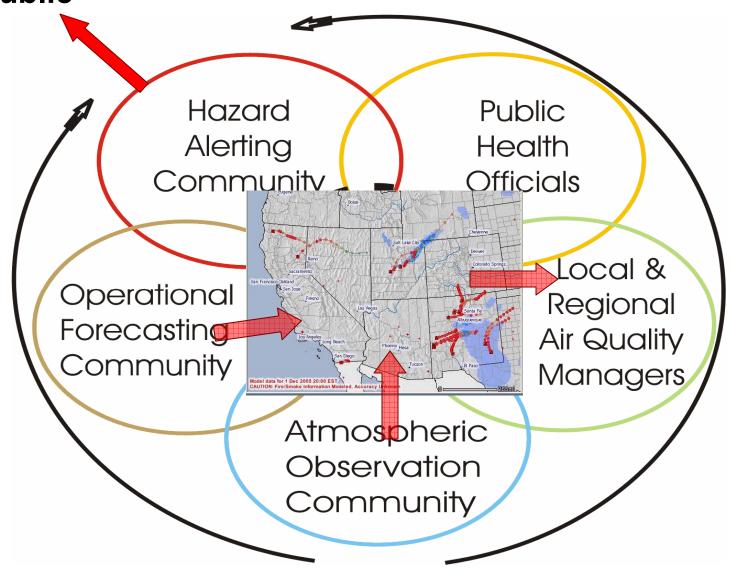
sources 'ublications ublicaciones What You Can Do About the Data

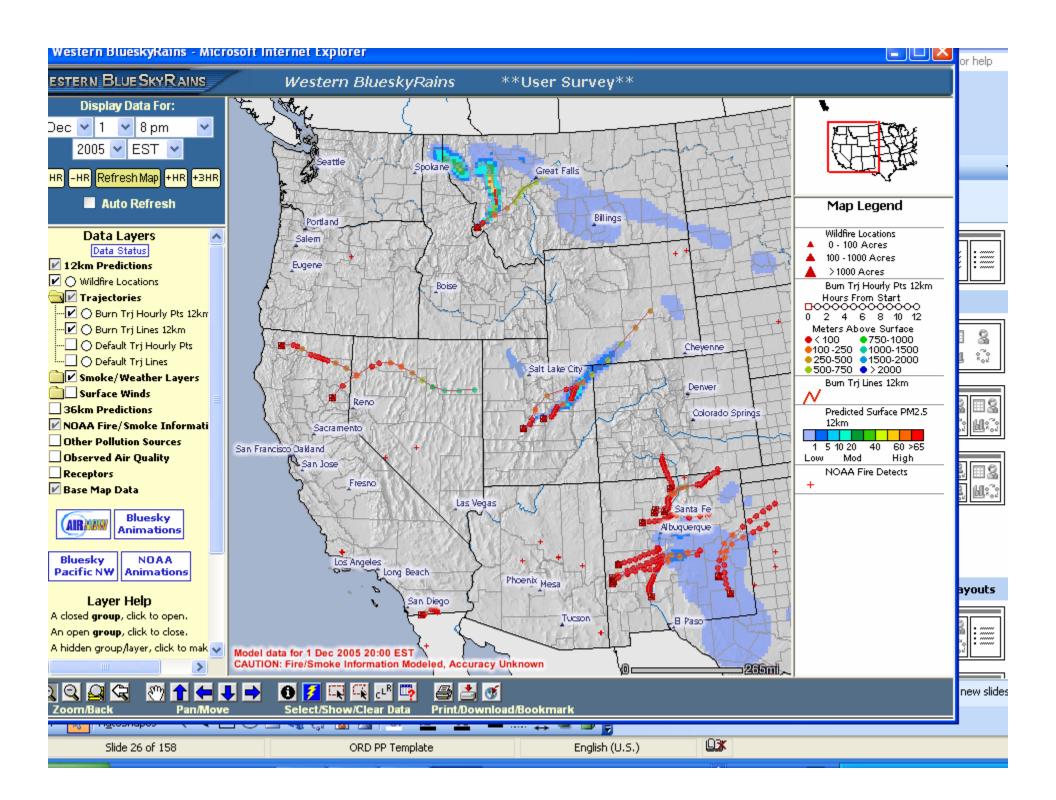
ntact Us



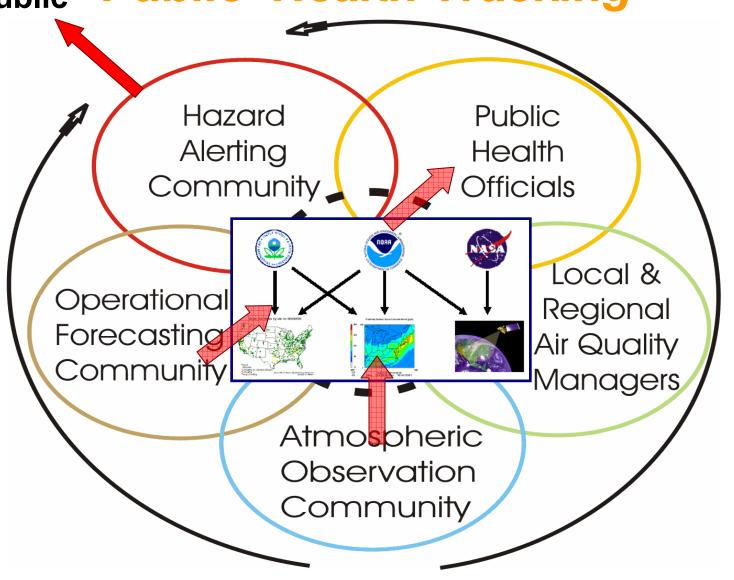
the reported information, or cancel the service. Once you choose the type and frequency of service that you

Real Time Modeling of Smoke Plumes

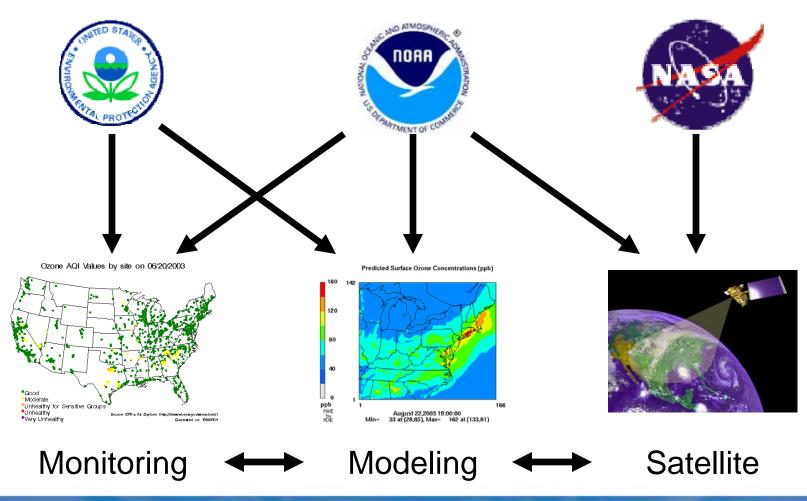




Better Air Quality Information for The Public Public Health Tracking



Partnerships in Better Characterizing Air Quality





The Public Health Air Surveillance Evaluation (PHASE) Project Example 1000 Example

- Develop and evaluate alternative air quality characterization methods for environmental public health tracking
 - Air Pollutants
 - Ozone and Particulate Matter
 - Health Endpoints
 - Asthma and Cardio Vascular Disease
- Working with 3 CDC State Partners
 - Maine
 - New York
 - Wisconsin



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The Public Air Quality & Health

